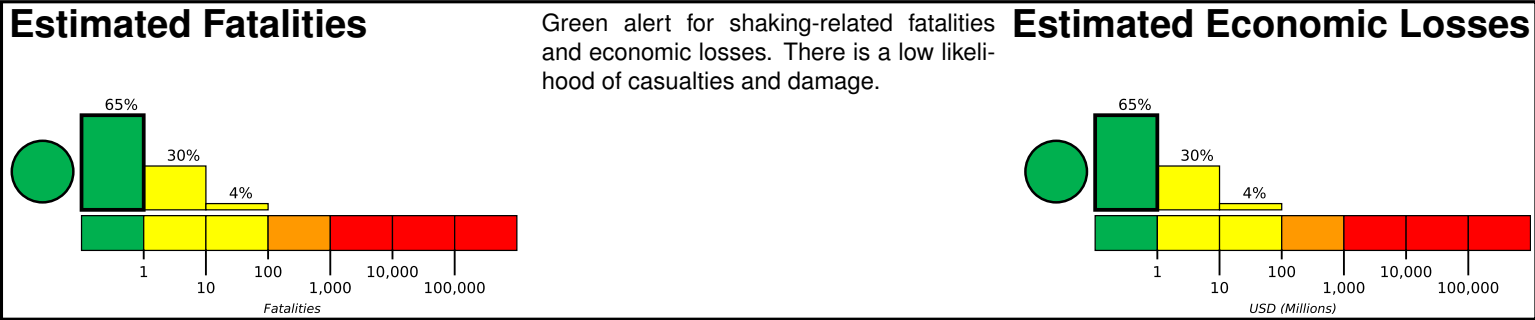


M 3.8, 8 km SW of Niland, CA
Origin Time: 2023-08-02 05:38:08 UTC (Tue 22:38:08 local)
Location: 33.1719° N 115.5923° W Depth: 5.0 km

PAGER Version 12

Created: 6 hours, 16 minutes after earthquake

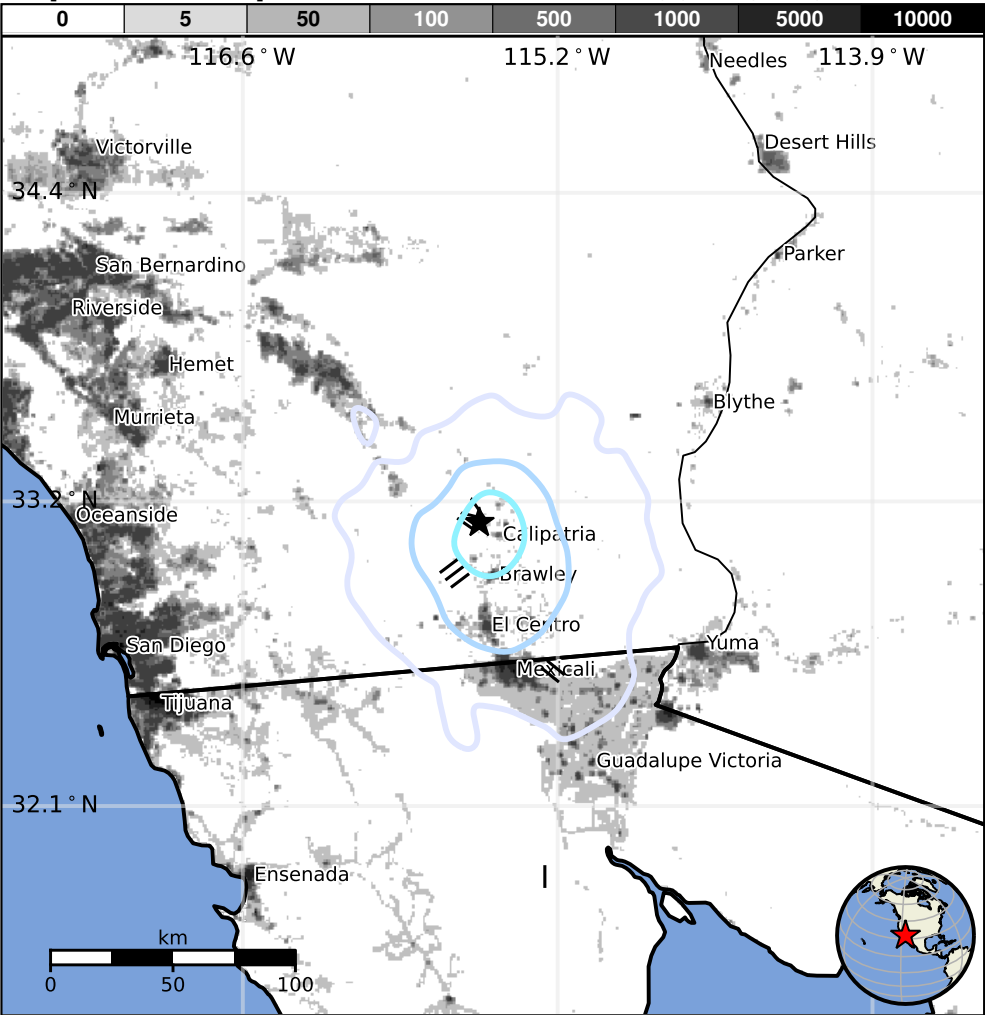


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		11,325k	1,097k	33k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	253	5.6	VI(1,267k)	1
1992-06-28	142	7.3	VIII(23k)	1
1971-02-09	292	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Calipatria	8k
IV	Niland	1k
IV	Westmorland	2k
IV	Brawley	25k
III	Imperial	15k
III	El Centro	43k
II	Mexicali	597k
I	Tijuana	1,376k
I	San Diego	1,307k
I	Riverside	304k
I	Ensenada	257k